

### ABSTRACT

A method and system that converts ballistic movement of a pen (e.g., movement of a pen point across a surface) into thickness information for digital ink data. The pen includes at least one accelerometer that is used to generate the ballistic information. A thickness conversion component may be located on a computer that is remote from the pen, and the ballistic information is transmitted to the computer via a hardwired or wireless connection. The accelerometer generates the ballistic information in the form of pulses, the width of which is directly related to the acceleration of the pen movements. The thickness conversion component converts the acceleration information, with or without additional information such as coordinate information, into thickness information for digital ink. This thickness information may be used to generate variably thick lines, which may be useful for a variety of applications, for example, better display and improved recognition.